

AMENDMENTS TO THE CLAIMS:

The following is a complete listing of the claims.

1-6. (Cancelled)

7. (Currently amended) A heat sink for cooling a component, the heat sink comprising:

a tubular body formed from a single extrusion of thermally conductive material having an interior surface and an exterior surface, at least a portion of the exterior surface being substantially flat and contacting the component to remove heat from the component; and

a plurality of internal fins extending from the interior surface of the tubular body;

wherein the heat sink has a mounting ridge for mounting a clip to hold the component substantially perpendicular against the substantially flat portion of the tubular body.

8-12. (Cancelled)

13. (Currently amended) A heat sink assembly for cooling a component on a circuit board, the heat sink assembly comprising:

a tubular body formed from a single extrusion of thermally conductive material having an interior surface, an exterior surface, at least a portion of the exterior surface being substantially flat and contacting the component to remove heat from the component;

a plurality of internal fins extending from the interior surface of the tubular body;

and

a fan adjacent to an open end of the tubular body to force ambient air through the tubular body;

wherein the tubular body has a mounting ridge for mounting a clip to hold the component substantially perpendicular against the substantially flat portion of the tubular body.

14-19. (Cancelled)

20. (Currently amended) A cooktop comprising:

a cooking plate;

a plurality of heating units mounted below the cooking plate;

a controller housing unit mounted below the cooking plate;

a circuit board for controlling the heating units, the circuit board having a plurality of components, the circuit board mounted inside the controller housing unit;

a heat sink assembly for cooling the plurality of components of the circuit board, the heat sink assembly attached to the circuit board, the heat sink mounted inside the controller housing unit, the heat sink assembly having

a tubular body formed from a single extrusion of thermally conductive material having an interior surface, an exterior surface and two open ends;

a plurality of internal fins extending from the interior surface of the tubular body; and

a fan adjacent to one of the two open ends of the tubular body to force ambient air through the tubular body;

wherein the exterior surface of the tubular body contacts the plurality of components to remove heat from the components; ~~and~~

wherein the tubular body has a mounting ridge for mounting a plurality of clips to hold the plurality of components substantially perpendicular against the exterior surface of the tubular body.

21. (Currently amended) A heat sink for cooling a component, the heat sink comprising:

a tubular body formed from a single extrusion of thermally conductive material having an interior surface and an exterior surface, a portion of the exterior surface being substantially flat;

a plurality of internal fins extending from the interior surface of the tubular body;
and

a mounting ridge for attaching the component such that the component is in substantially perpendicular contact with the substantially flat portion of the external surface.

22. (Previously presented) The heat sink of claim 21, wherein the internal fins are arranged in a plurality of sets, with the internal fins of each set extending in parallel to varying lengths.

23. (Previously presented) The heat sink of claim 22, wherein the internal fins are generally symmetric around a center line of the tubular body.

24. (Previously presented) The heat sink of claim 23, wherein the fins in a center of a set are longer than the fins at an edge of a set.
25. (Previously presented) The heat sink of claim 21, further comprising a plurality of exterior fins extending from the exterior surface of the tubular body.
26. (Previously presented) The heat sink of claim 25, further comprising a fan positioned adjacent to an open end of the tubular body.
27. (Cancelled)
28. (Previously presented) The heat sink of claim 7, wherein the internal fins are generally symmetric around a center line of the tubular body.
29. (Previously presented) The heat sink of claim 28, wherein the fins in a center of a set are longer than the fins at an edge of a set.
30. (Previously presented) The heat sink of claim 7 further comprising a plurality of exterior fins extending from the exterior surface of the tubular body.
31. (Previously presented) The heat sink of claim 30, further comprising a fan positioned adjacent to an open end of the tubular body.

32. (Currently amended) A cooktop comprising:

a cooking plate;

a plurality of heating units mounted below the cooking plate;

a controller housing unit mounted below the cooking plate;

a circuit board, mounted inside the controller housing unit, for controlling the ~~eating~~ heating units, the circuit board having a plurality of components; and

a heat sink attached to the circuit board for cooling the plurality of components, the heat sink comprising:

a tubular body formed from a single extrusion of thermally conductive material having an interior surface and an exterior surface, a portion of the exterior surface being substantially flat;

a plurality of internal fins extending from the interior surface of the tubular body; and

a mounting ridge for attaching the components such that the components are in substantially perpendicular contact with the substantially flat portion of the exterior surface.

33. (Previously presented) The cooktop of claim 32, wherein the internal fins are positioned in a plurality of sets, with the internal fins in each set extending in parallel to varying lengths.

34. (Previously presented) The cooktop of claim 33, wherein the internal fins are generally symmetric around a center line of the tubular body.

35. (Previously presented) The cooktop of claim 34, wherein the fins in a center of a set are longer than the fins at an edge of a set.
36. (Previously presented) The cooktop of claim 32, further comprising a plurality of exterior fins extending from the exterior surface of the tubular body.
37. (Previously presented) The cooktop of claim 36, further comprising a fan positioned adjacent to an open end of the tubular body.
38. (Cancelled)
39. (Previously presented) The cooktop of claim 20, wherein the internal fins are generally symmetric around a center line of the tubular body.
40. (Previously presented) The cooktop of claim 39, wherein the fins in a center of a set are longer than the fins at the edge of a set.
41. (Previously presented) The cooktop of claim 20, further comprising a plurality of exterior fins extending from the exterior surface of the tubular body.
42. (Previously presented) The cooktop of claim 41, further comprising a fan positioned adjacent to an open end of the tubular body.